

WHAT IS CLAIMED IS:

1. A method for measuring an amount of an objective component to be measured in a sample, which comprises;

5 preventing an electric charge in an atmosphere in a photometry chamber from transferring to the surface of a solution which generates light due to an energy variation of a substance induced by the objective component in the sample,

measuring value of the light, and

10 determining an amount of the objective component in the sample on the basis of the measured value thus obtained.

2. The method according to Claim 1, wherein the method for preventing the electric charge in the atmosphere in the photometry
15 chamber from transferring to the surface of the solution is a method for making an atmosphere surrounding a reaction vessel and/or an atmosphere surrounding the reaction vessel in the photometry chamber electrically constant, or a method for blocking a contact of the atmosphere in the photometry chamber with the solution in the reaction
20 vessel.

3. The method according to Claim 2, wherein the method for making the atmosphere surrounding the reaction vessel and/or the atmosphere surrounding the reaction vessel in the photometry chamber constant
25 is a method for treating the atmosphere surrounding the reaction vessel and/or the atmosphere surrounding the reaction vessel in the photometry chamber by using one or more of material selected from the

group consisting of;

- (1) gas having a constant electric charge,
- (2) an neutralization apparatus, or
- (3) a material having a static electricity elimination effect.

5

4. The method according to Claim 2, wherein the method for making the atmosphere surrounding the reaction vessel and/or the atmosphere surrounding the reaction vessel in the photometry chamber electrically constant is a method for attaching a material having a static
10 electricity elimination effect on to a inside wall surface of the photometry chamber.

5. The method according to Claim 2, wherein the method for making the atmosphere surrounding the reaction vessel and/or the atmosphere
15 surrounding the reaction vessel in the photometry chamber electrically constant is a method for treating the atmosphere surrounding the reaction vessel at a stage before the reaction vessel is moved to the photometry chamber, by using one or more of material selected from the group consisting of;

20

- (1) gas having a constant electric charge,
- (2) an neutralization apparatus, or
- (3) a material having a static electricity elimination effect.

25

6. The method according to Claim 2, wherein the method for blocking a contact of the atmosphere in the photometry chamber with the solution in the reaction vessel is a method for shutting an opening part of the reaction vessel holding the solution with a sheet, or a method

for covering the surface of the solution in the reaction vessel with a substance insoluble to the solution.

7. The method according to Claim 1, wherein the light generated
5 due to the energy variation of the substance is luminescence, fluorescence, or phosphorescence, which is induced by the presence of the objective component in the sample.

8. An instrument for measuring value of light generated due to
10 an energy variation of a substance in a solution instrument, which contains a mechanism for measuring value of light generated due to an energy variation of a substance in a solution and a mechanism for preventing an electric charge in an atmosphere in a photometry chamber from transferring to the surface of the solution.

15 9. The instrument according to Claim 8, wherein the mechanism for preventing the electric charge in the atmosphere in the photometry chamber from transferring to the surface of the solution is a mechanism for making an atmosphere surrounding a reaction vessel and /or an
20 atmosphere surrounding the reaction vessel in the photometry chamber electrically constant, or a mechanism for blocking a contact of the atmosphere in the photometry chamber with the solution in the reaction vessel.

25 10. The instrument according to Claim 9, wherein the mechanism for making the atmosphere surrounding the reaction vessel and /or the atmosphere surrounding the reaction vessel in the photometry chamber

electrically constant is one or more of mechanism selected from the group consisting of;

- (1) an apparatus for flowing gas having a constant electric charge to surrounding the reaction vessel and /or into the photometry chamber,
- 5 (2) an neutralization apparatus, or
- (3) a photometry chamber on which a material having a static electricity elimination effect is attached.

11. The instrument according to Claim 9, wherein the mechanism
10 for blocking a contact of the atmosphere in the photometry chamber with the solution in the reaction vessel is a mechanism for shutting an opening part of the reaction vessel holding the solution with a sheet.

15 12. The instrument according to Claim 9, wherein the mechanism for blocking a contact of the atmosphere in the photometry chamber with the solution in the reaction vessel is a mechanism for covering the surface of the solution with a substance insoluble in the solution.

20 13. The instrument according to Claim 8, wherein the light generated due to the variation of the energy of the substance is luminescence, fluorescence, or phosphorescence, which is generated corresponding to a presence of an objective component to be measured in a sample.

25

14. A method for measuring an amount of an objective component to be measured in a sample, which comprises;

making an atmosphere surrounding a reaction vessel and/or a reaction vessel in a photometry chamber electrically constant,

measuring value of light generated due to an energy variation of a substance induced by the objective component in the sample, in the
5 reaction vessel of the photometry chamber, and

determining an amount of the objective component in the sample on the basis of the measured value thus obtained.

15. An instrument for measuring value of light generated due to
10 an energy variation of a substance, which contains

a mechanism for measuring value of light generated due to an energy variation of a substance and

a mechanism for treating for making an atmosphere surrounding a reaction vessel and /or a reaction vessel of a photometry chamber
15 electrically constant.